One Book / One Caliber

2000 EDITION

The Complete Reloading Manual for the .243 Winchester

Containing Unabridged Information
from U.S. Bullet
and Powder Makers

*Accurate * Alliant * Hodgdon * Hornady*
*IMR * Lyman * Nosler * RCBS * Scot*
*Sierra * Speer * Winchester and Others*

1,409 Proven & Tested Loads
51 Various Bullet Designs
55 Different Powders

RELOADING SAFETY RULES

Reloading is an enjoyable and rewarding hobby that is easily conducted with safety. But, like many other human endeavors, carelessness or negligence can make reloading hazardous.

The essence of reloading safety is proper handling and storage of primers and powder. By observing the following rules, the chance of hazardous occurrence becomes extremely remote.

Store powder and primers beyond the reach of children and away from heat and open flames. Do not smoke when reloading.

Keep no more powder that needed in an open container. Immediately return unused powder to its original factory container.

Don't use any powder unless its identity is positively known. Scrap all mixed powders and those of uncertain or unknown identity.

Do not store primers in bulk. To do so is to create a bomb! Bulk primers will mass detonate. Do not use primers when their identity is lost. Safely dispose of unknown types of primers.

Courtesy of Speer Reloading Manual No. 11

All loading data contained in this book is the result of testing by the various bullet and powder manufacturers. Under carefully controlled conditions and with the components and test equipment specified, this data proved safe in their tests. Since none of the companies, nor the publisher, listed herein has control over the components and equipment which may be used with this published information, no responsibility is implied or assumed for results obtained through its use.

Courtesy of Hornady Manufacturing Company, Inc.

Sierra Bullets cannot and does not accept any liability, either expressed or implied, for results of damage or injury arising from or alleged to have arisen from the use of the data in this manual.

Courtesy of Sierra Bullets

Follow loading recommendations exactly. Don't substitute components for those listed. Start loading with the minimum powder charges. Understand what you are doing and why it must be done in a specific way. Stay alert when reloading. Don't reload when distracted, disturbed or tired.

Courtesy of Nosler Bullets, Inc.

The Complete Reloading Manual for the .243 Winchester

The publisher is deeply indebted to the following companies for their permission to reprint their proprietary reloading information found in this manual.

Accurate Arms Company, Inc.
Blount, Inc.
Alliant Technologies
Hodgdon Powder Co., Inc.
Hornady Manufacturing Company
IMR Powder Company
Lyman Products Corporation
Nosler Bullets, Inc.
RCBS Bullets
Scot Powders
Sierra Bullets, L.P.
Speer Bullets
Winchester

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DISCLAIMER

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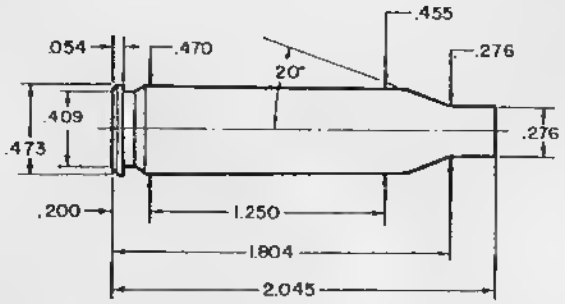
DISCLAIMER

SHOOTER'S LOG

SHOOTER'S LOG

.243 WINCHESTER - HORNADY BULLETS



243 WINCHESTER

RIFLE: WINCHESTER 70	BULLET DIAMETER: .243"
BARREL: 24", 1 in 10" TWIST	MAXIMUM C.O.L.: 2.650"
CASE: HORNADY/FRONTIER	MAX. CASE LENGTH: 2.045"
PRIMER: FEDERAL 210	CASE TRIM LENGTH: 2.035"

The 243, a 6mm cartridge necked down from the 308 case, was introduced in 1955 by Winchester. The versatility and accuracy of the 243 soon elevated it to levels of popularity not to be exceeded by any other round in its class. Much of the original acclaim about the all-around capabilities of the 243 can be credited to the late Warren Page.

This potent 6mm cartridge is suitable for game ranging from prairie dogs to deer. Hornady offers four explosive varmint bullets for all phases of varminting: the 70 grain Spire Point, the 70 grain SX Spire Point, the 75 grain Hollow Point, and the 87 grain Spire Point. The 70 grain SX Spire Point bullet has a very thin jacket and velocities in excess of 3400 fps may cause this bullet to disintegrate in flight. At lower velocities, it is still quite flat shooting and explosive. The 80 grain Full Metal Jacket was designed with the pelt hunter in mind and the 100 grain Spire Point, 100 grain Boattail Spire Point, and 100 grain Round Nose were constructed to give good penetration and controlled expansion in deer sized game.

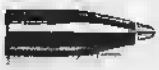
During our testing, several powders performed very well. Those powders were IMR 3031, IMR 4064, and IMR 4831 with the very best groups and uniformity obtained from IMR 3031. Slow burning powders such as IMR 4350 are not safe when loaded with reduced charges. Lighter charges of a slow burning propellant may cause unexpected high pressure, known as detonation. In some instances primers are blown, bolts stick, or even stocks are splintered. At any rate, this detonation problem only exists with lower charges of slow burning powder and we do not recommend such use in the 243. Never use charges of slow burning powders lower than listed in our data.

.243 WINCHESTER - HORNADY BULLETS

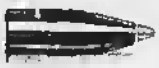
70 GRAIN BULLETS:

SECTIONAL DENSITY:	.169
DIAMETER:	.243"

#2410 SP
Ballistic Coefficient — .262
C.O.L. — 2.650"



#2415 SXSP
Ballistic Coefficient — .269
C.O.L. — 2.650"



	VELOCITY					
POWDER	3000 fps	3100 fps	3200 fps	3300 fps	3400 fps	3500 fps
AA 2520	23.1 gr.	34.5 gr.	35.8 gr.	37.1 gr.	38.5 gr.	39.8 gr.
IMR 3031	35.8 gr.	36.8 gr.	37.9 gr.	39.0 gr.	40.0 gr.	41.1 gr.
RL-12	34.8 gr.	36.1 gr.	37.5 gr.	38.8 gr.	40.2 gr.	
IMR 4895	36.2 gr.	37.3 gr.	38.4 gr.	39.5 gr.	40.6 gr.	
IMR 4064	37.0 gr.	38.1 gr.	39.2 gr.	40.3 gr.	41.4 gr.	42.5 gr.
IMR 4320	37.7 gr.	38.8 gr.	39.9 gr.	41.0 gr.	42.0 gr.	43.1 gr.
WIN 760	40.3 gr.	41.5 gr.	42.7 gr.	44.0 gr.	45.2 gr.	
H4350	42.2 gr.	43.4 gr.	44.6 gr.	45.8 gr.	47.0 gr.	
IMR 4831	43.8 gr.	44.9 gr.	46.0 gr.	47.1 gr.	48.2 gr.	49.4 gr.

Indicates maximum load - use with caution

75 GRAIN BULLETS:

SECTIONAL DENSITY:	.181
DIAMETER:	.243"

#2420 HP
Ballistic Coefficient — .294
C.O.L. — 2.640"

	VELOCITY				
POWDER	3000 fps	3100 fps	3200 fps	3300 fps	3400 fps
AA 2520	34.5 gr.	35.8 gr.	37.1 gr.	38.4 gr.	
IMR 3031	36.0 gr.	37.2 gr.	38.3 gr.	39.5 gr.	
RL-12	35.7 gr.	37.0 gr.	38.3 gr.	39.6 gr.	
IMR 4895	36.1 gr.	37.4 gr.	38.7 gr.	39.9 gr.	
IMR 4064	36.8 gr.	38.1 gr.	39.4 gr.	40.7 gr.	
IMR 4320	37.7 gr.	38.9 gr.	40.2 gr.	41.4 gr.	
WIN 760	40.1 gr.	41.4 gr.	42.7 gr.	44.0 gr.	
IMR 4831	42.1 gr.	43.1 gr.	44.2 gr.	45.3 gr.	
H4350	42.4 gr.	43.6 gr.	44.8 gr.	45.9 gr.	47.1 gr.
H450	42.2 gr.	43.8 gr.	45.3 gr.	46.9 gr.	

Indicates maximum load - use with caution

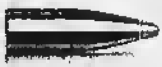
.243 WINCHESTER - HORNADY BULLETS

80 GRAIN BULLETS:

SECTIONAL DENSITY:	.194
DIAMETER:	.243"

#2430 FMJ
Ballistic Coefficient — .261
C.O.L. — 2.600"

#2435 SSSP
Ballistic Coefficient — .283
C.O.L. — 2.600"



	VELOCITY					
POWDER	2800 fps	2900 fps	3000 fps	3100 fps	3200 fps	3300 fps
AA 2520	32.2 gr.	33.7 gr.	35.1 gr.	36.5 gr.	37.9 gr.	
RL-12	33.2 gr.	34.6 gr.	35.9 gr.	37.2 gr.	38.5 gr.	
IMR 3031	33.5 gr.	34.8 gr.	36.0 gr.	37.3 gr.	38.5 gr.	
IMR 4895	34.0 gr.	35.3 gr.	36.6 gr.	37.9 gr.	39.2 gr.	
IMR 4064	35.5 gr.	36.6 gr.	37.8 gr.	38.9 gr.	40.1 gr.	
IMR 4320	34.9 gr.	36.3 gr.	37.6 gr.	38.9 gr.	40.2 gr.	
WIN 760		38.9 gr.	40.2 gr.	41.5 gr.	42.8 gr.	44.1 gr.
H4350	40.2 gr.	41.3 gr.	42.5 gr.	43.6 gr.	44.7 gr.	45.8 gr.
IMR 4831	41.5 gr.	42.7 gr.	43.9 gr.	45.1 gr.	46.2 gr.	

REDUCED LOADS

	VELOCITY					
POWDER	2100 fps	2200 fps	2300 fps	2400 fps	2500 fps	2600 fps
SR 4759	16.8 gr.	18.3 gr.	19.8 gr.	21.2 gr.	22.7 gr.	24.2 gr.

Indicates maximum load - use with caution

87 GRAIN BULLETS:

SECTIONAL DENSITY:	.210
DIAMETER:	.243"

#2440 SP
Ballistic Coefficient — .327
C.O.L. — 2.640"

#2442 BTHP
Ballistic Coefficient — .376
C.O.L. — 2.640"

	VELOCITY				
POWDER	2800 fps	2900 fps	3000 fps	3100 fps	3200 fps
AA 2520	33.1 gr.	34.6 gr.	36.1 gr.		
RL-12	33.7 gr.	35.3 gr.	36.9 gr.		
IMR 3031	34.0 gr.	35.3 gr.	36.6 gr.	37.9 gr.	
IMR 4895	34.6 gr.	35.8 gr.	37.1 gr.	38.3 gr.	
IMR 4064	35.4 gr.	36.7 gr.	37.9 gr.	39.2 gr.	
IMR 4320	35.8 gr.	37.1 gr.	38.4 gr.	39.7 gr.	
WIN 760	38.0 gr.	39.3 gr.	40.5 gr.	41.7 gr.	42.9 gr.
IMR 4831	39.4 gr.	40.9 gr.	42.3 gr.	43.8 gr.	
H450	40.2 gr.	41.9 gr.	43.5 gr.		
RL-19	41.2 gr.	42.5 gr.	43.7 gr.	45.0 gr.	46.3 gr.
H4350	40.6 gr.	41.8 gr.	43.1 gr.	44.3 gr.	

Indicates maximum load - use with caution

.243 WINCHESTER - HORNADY BULLETS

100 GRAIN BULLETS:

SECTIONAL DENSITY:	.242
DIAMETER:	.243"

#2450 SP
Ballistic Coefficient — .381
C.O.L. — 2.630"

#2453 BTSP
Ballistic Coefficient — .405
C.O.L. — 2.625"

#2455 RN
Ballistic Coefficient — .230
C.O.L. — 2.616"

	VELOCITY				
POWDER	2600 fps	2700 fps	2800 fps	2900 fps	3000 fps
AA 2520	31.3 gr.	32.8 gr.	34.4 gr.		
IMR 4895	32.6 gr.	34.0 gr.	35.3 gr.		
IMR 4064	33.6 gr.	34.9 gr.	36.2 gr.	37.5 gr.	
IMR 4320	34.2 gr.	35.5 gr.	36.8 gr.	38.2 gr.	
WIN 760	35.5 gr.	37.0 gr.	38.6 gr.	40.2 gr.	
IMR 4831	37.2 gr.	38.4 gr.	39.7 gr.	40.9 gr.	
IMR 4350		39.0 gr.	40.1 gr.	41.4 gr.	
H4350	38.4 gr.	39.8 gr.	41.1 gr.	42.5 gr.	
H450		39.5 gr.	41.4 gr.	43.3 gr.	
RL-19	38.8 gr.	40.2 gr.	41.6 gr.	43.0 gr.	44.4 gr.
IMR 7828	40.8 gr.	42.4 gr.	43.9 gr.	45.5 gr.	

Indicates maximum load - use with caution

243 Winchester

By Tom Gresham

Even though it has been around for more than 40 years, there's just something about the .243 Winchester that stirs debate. Want to start a hot discussion in hunting camp?

Casually comment that the .243 is a great deer cartridge, then sit back and watch the fun.

Even before it was a commercial round, wildcatters had begun necking down the case of the experimental military round that became the .308 Winchester. Led by Warren Page's experiments and writing, varminters and bench resters wrung out this case to see what it would do. Not far behind them were hunters who plugged 90- and 100-grain bullets into the case with an eye toward building a flat-shooting, light-recoiling cartridge suitable for deer-sized game. In 1955 Winchester introduced the factory cartridge, dubbed the .243 Winchester, and varminters and deer hunters both found something to like.

Everyone agreed that the .243 was a good varmint cartridge (even though the recoil was a bit much for a 500-shot day), but when it began establishing a track record on deer, antelope and sheep, the reviews were mixed. Some of those problems came from bullet selection—deer hunters used fragile 75- and 80-grain varmint bullets which failed to deliver the needed penetration. When topped with a controlled expansion bullet such as the Nosler® Partition®, however, the .243 becomes a reliable performer on black bear, deer, pronghorn, sheep, goats and other game smaller than elk.

The 95-grain Ballistic Tip® incorporates a heavy base for deep penetration and is designed for big game hunting. Varmint hunters have proven the effectiveness of the 70-grain Ballistic Tip®, and many more will delight in the performance of the new 55-grain Ballistic Tip®. This new, lightweight Nosler enables .243 shooters to break the 4,000 fps barrier with devastating results on varmints.

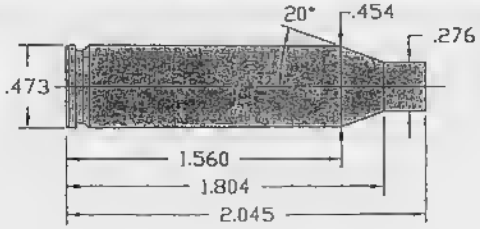
Hunters often say the .243 kills big game better than it should. The reason is simple. The light recoil of this cartridge makes it easy to put the bullet in the right place, and bullet placement remains the constant in anchoring trophy animals. Hunters are not afraid of the "little" .243, so they shoot it well.

Tom Gresham

Tom is Arms and Ammo Editor of Sports Afield magazine and host of "Tom Gresham's Gun Talk" national radio talk show.

.243 Winchester

Test Information



RIFLE:	Barrel:	Lilja
	Length:	24"
	Twist:	1-10"
CASE:		Winchester
PRIMER:		Rem. 9½

Comments from the lab

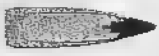
Loaded with either our 55- or 70-grain Ballistic Tip® bullets, the .243 Winchester is an awesome long range varminter. With any of our 6mm Partition® bullets, or the 95-grain Ballistic Tip®, the .243 is an adequate light deer rifle provided the shot is carefully placed. RL 15 and good old IMR 4350 are a couple of our favorite powders for this cartridge.

The industry maximum overall cartridge length (O.A.L.) was established to assure proper feeding in modern sporting firearms. For the .243 Winchester, this overall length has been established at 2.710". Optimum accuracy is usually achieved with a slightly longer cartridge length.

.243 Winchester - Nosler Bullets

Nosler

55 Grain



55 gr. Solid Base*
Ballistic Tip* (purple)

Ballistic Coefficient .278
Sectional Density .133

*Most Accurate Load Tested
**Compressed Load

Powder	Charge Weight in Grains	Muzzle Velocity (fps)	Load Density
RL 12	*Max.* 41.0	3854 fps	76%
	39.0	3727 fps	72%
	37.0*	3601 fps	69%
RL 15	*Max.* 45.0	3993 fps	83%
	43.0	3784 fps	80%
	41.0*	3576 fps	76%
IMR 4895	*Max.* 44.5*	3935 fps	83%
	42.5	3735 fps	79%
	40.5	3535 fps	75%
IMR 4064	*Max.* 45.5*	3970 fps	84%
	43.5	3759 fps	81%
	41.5	3549 fps	77%
IMR 4320	*Max.* 45.5*	3942 fps	84%
	43.5	3743 fps	81%
	41.5	3544 fps	77%
VARGET	*Max.* 45.5	3941 fps	84%
	43.5	3758 fps	81%
	41.5*	3575 fps	77%
N 150	*Max.* 45.0*	3872 fps	83%
	43.0	3716 fps	80%
	41.0	3560 fps	76%
W 760	*Max.* 50.0*	3901 fps	93%
	48.0	3737 fps	89%
	46.0	3573 fps	85%
H 380	*Max.* 53.0*	4069 fps	98%
	51.0	3926 fps	95%
	49.0	3783 fps	91%
H 414 (*Most Accurate Powder Tested*)	*Max.* 52.5*	3982 fps	97%
	50.5	3833 fps	94%
	48.5	3684 fps	90%

Use Maximum Loads with Caution

.243 WINCHESTER - NOSLER BULLETS

Nosler®

70 Grain

70 gr. Solid Base® Ballistic Tip® (purple)

Ballistic Coefficient .310
Sectional Density .169

* *Most Accurate Load Tested*
** *Compressed Load*

Powder	*Charge Weight in Grains*	*Muzzle Velocity (fps)*	*Load Density*
	Max. 38.0	3460 fps	75%
H 335	36.0	3330 fps	71%
	34.0*	3202 fps	67%
	Max. 38.0	3310 fps	75%
IMR 3031	36.0	3150 fps	71%
	34.0*	2993 fps	67%
VARGET	*Max.* 42.0*	3616 fps	83%
(Most Accurate Powder Tested)	40.0	3477 fps	79%
	38.0	3338 fps	75%
	Max. 40.0*	3383 fps	79%
IMR 4895	38.0	3218 fps	75%
	36.0	3060 fps	71%
	Max. 41.5*	3478 fps	82%
IMR 4064	39.5	3323 fps	78%
	37.5	3168 fps	74%
	Max. 44.0	3440 fps	87%
H 380	42.0	3300 fps	83%
	40.0*	3160 fps	79%
	Max. 47.5*	3630 fps	94%
H 414	45.5	3470 fps	90%
	43.5	3310 fps	86%
	Max. 47.0*	3610 fps	93%
IMR 4350	45.0	3430 fps	89%
	43.0	3250 fps	85%
	Max. 47.0	3463 fps	93%
N 160	45.0	3315 fps	89%
	43.0*	3167 fps	85%
	Max. 47.5	3366 fps	94%
IMR 4831	45.5	3240 fps	91%
	43.5*	3117 fps	88%

Use Maximum Loads with Caution

Nosler®

85 Grain

85 gr. Partition®
Spitzer

*Most Accurate Load Tested
**Compressed Load

Ballistic Coefficient .315
Sectional Density .205

Powder	Charge Weight in Grains	Muzzle Velocity (fps)	Load Density
IMR 3031	*Max.* 37.0	3180 fps	70%
	35.0	3020 fps	66%
	33.0*	2860 fps	62%
IMR 4895	*Max.* 37.0	3145 fps	70%
	35.0	2995 fps	66%
	33.0*	2845 fps	62%
IMR 4064	*Max.* 37.0	3139 fps	70%
	35.0	2974 fps	66%
	33.0*	2809 fps	62%
H 380	*Max.* 42.0*	3232 fps	80%
	40.0	3077 fps	76%
	38.0	2922 fps	72%
W 760	*Max.* 42.0	3139 fps	80%
	40.0	3054 fps	76%
	38.0*	2969 fps	72%
N 160	*Max.* 44.0*	3315 fps	83%
	42.0	3204 fps	80%
	40.0	3092 fps	76%
RL 19	*Max.* 43.5*	3258 fps	82%
	41.5	3131 fps	79%
	39.5	3005 fps	75%
IMR 4350 *(Most Accurate Powder Tested)*	*Max.* 43.5	3240 fps	82%
	41.5	3085 fps	79%
	39.5*	2930 fps	75%
AA 3100	*Max.* 46.0	3308 fps	87%
	44.0	3178 fps	83%
	42.0*	3048 fps	80%
IMR 4831	*Max.* 44.5*	3150 fps	84%
	42.5	3030 fps	80%
	40.5	2910 fps	77%

Use Maximum Loads with Caution

.243 WINCHESTER - NOSLER BULLETS

Nosler®

95/100 Grain

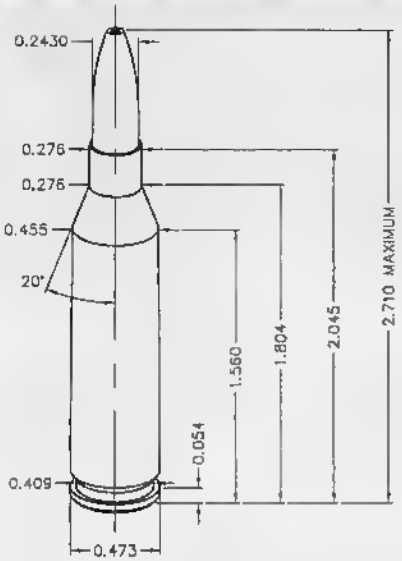
95 gr. Partition® Spitzer		95 gr. Solid Base® Ballistic Tip® (purple)		100 gr. Partition® Spitzer	
Ballistic Coefficient	.365	Ballistic Coefficient	.379	Ballistic Coefficient	.384
Sectional Density	.230	Sectional Density	.230	Sectional Density	.242

**Most Accurate Load Tested*
***Compressed Load*

Powder	*Charge Weight in Grains*	*Muzzle Velocity (fps)*	*Load Density*
IMR 3031	*Max.* 35.0*	2900 fps	70%
	33.0	2800 fps	66%
	31.0	2700 fps	62%
IMR 4895	*Max.* 35.5	2857 fps	71%
	33.5	2722 fps	67%
	31.5*	2587 fps	63%
IMR 4064	*Max.* 35.5	2818 fps	71%
	33.5	2708 fps	67%
	31.5*	2598 fps	63%
IMR 4350	*Max.* 41.5*	3060 fps	83%
	39.5	2985 fps	79%
	37.5	2909 fps	75%
H 380	*Max.* 40.0*	2968 fps	80%
	38.0	2843 fps	76%
	36.0	2718 fps	72%
RL 22 *(Most Accurate Powder Tested)*	*Max.* 42.5*	3020 fps	85%
	40.5	2920 fps	81%
	38.5	2820 fps	77%
AA 3100	*Max.* 44.0	3100 fps	88%
	42.0	2980 fps	84%
	40.0*	2860 fps	80%
IMR 4831	*Max.* 42.0*	2930 fps	84%
	40.0	2830 fps	80%
	38.0	2730 fps	76%
IMR 7828	*Max.* 45.5*	3123 fps	91%
	43.5	2998 fps	87%
	41.5	2873 fps	83%

Use Maximum Loads with Caution

243 Winchester



Test Specifications
Firearm used: Winchester M70
Bbl.Length/Twist: 26"/1x10"
Firearm Used: Winchester M70
Bbl.Length/Twist: 26"/1x8"(107 grain HPBT)

Test Components
Cases: Federal
Trim-to-length: 2.035"
Primers: Federal 210M

Remarks:

Introduced in 1955, the .243 was intended to serve as a true dual-purpose varmint/deer cartridge. Based on the .308 Winchester case, the .243 was the logical result of work done by noted gunwriter and benchrest shooter Warren Page. Some years earlier, Page had acquired some samples of the then experimental 7.62mm NATO case and he necked them down to accept .243" projectiles. Known as the .240 Page Pooper (Warren was rather "unique" in naming his wildcats), the cartridge proved to be an excellent performer.

The .243 *is* a tremendously versatile cartridge. With hunting bullets ranging in weight from 60 to 100 grains, the .243 is well suited to game from varmints to mule deer. Sierra's 75 grain Hollow Point and 80 grain Blitz bullets have proven to be devastatingly effective on prairie dogs, 'chucks, and coyotes, as well as other similar varmint species.

Although touted as an ideal round for recoil-sensitive shooters, the cartridge's limitations must be recognized. Small-caliber cartridges used for big-game hunting require near perfect shot placement for quick kills, even with the heaviest bullets available. The hunter who recognizes these limitations and is willing to pass up questionable or less-than-perfect shots will be well served by the .243 Winchester.

Within the last few years, the .243 has become popular as a competitive match cartridge as well. In 1993, G. David Tubb used the .243 to win both the Highpower Championships at Camp Perry, Ohio, and the National Silhouette

243 Winchester, continued

Championships (both heavy *and* hunting rifle), at Raton, New Mexico. The Sierra 107 grain HPBT MatchKing that David used in these matches requires a fast-twist barrel to properly stabilize. We recommend this bullet be used in a 1x7" or 1x8" twist for optimum results.

.243 60 gr. HP
Cartridge OAL: 2.600"

Powder ↓ / Velocity →	3300	3400	3500	3600	3700	3800
Viht N133	34.2	35.3	36.4	37.5		
IMR·3031		36.4	37.6	38.8	40.1	
H322	34.4	35.6	36.8			
748		38.7	40.0	41.3		
BL·C(2)	36.8	37.9	39.0	40.1	41.2	
IMR·4895		37.0	38.3	39.6	41.0	
VARGET	37.0	38.5	40.0	41.5	43.0	
IMR·4064		37.9	39.1	40.3	41.6	
IMR·4320		39.2	40.6	42.0	43.4	
H380			40.8	42.3	43.8	45.4
760			44.9	46.3	47.7	49.0
IMR·4350	42.1	43.2	44.3	45.5	46.7	
IMR·4831	43.8	44.9	46.1	47.3		
H450		46.8	48.4	50.0	51.5	
H4831	45.7	46.8	47.9	49.0		
Energy/ft.lbs.	*1451*	*1540*	*1632*	*1726*	*1824*	*1923*

Accuracy Load: IMR·4064/39.1 grs.; 3500 fps/1632 ft.lbs.
Hunting Load: H380/43.8 grs.; 3700 fps/1824 ft.lbs.

INDICATES MAXIMUM LOAD · USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

243 Winchester, continued

.243 70 gr. MatchKing HPBT
Cartridge OAL: 2.625"

.243 75 gr. HP
Cartridge OAL: 2.625"

Powder ↓ / Velocity →	3000	3100	3200	3300	3400	3500
IMR-3031		34.0	35.3	36.6	38.0	
H322	32.0	33.5	35.0			
748	34.9	36.4	37.9			
BL-C(2)	34.4	35.7	37.1			
IMR-4895	33.5	34.8	36.2	37.6	39.0	
Viht N135	33.3	34.7	36.0	37.3	38.7	40.1
VARGET	34.7	36.0	37.3	38.6	39.9	41.1
IMR-4064		35.5	36.8	38.1	39.4	
IMR-4320		36.2	37.6	39.0	40.5	
Norma 202	34.5	36.0	37.4			
H380	35.7	37.1	38.6	40.1		
760		40.6	42.2	43.8	45.4	
AA-4350	41.8	42.8	43.9	44.9	46.0	
IMR-4350		40.7	42.0	43.3	44.6	
IMR-4831		42.3	43.7	45.0	46.4	
H450			45.1	46.5	47.9	49.4
H4831		43.0	44.3	45.6	46.9	
Energy/ft.lbs.	*1499*	*1600*	*1705*	*1813*	*1925*	*2040*

Accuracy Load: IMR-4064/38.1 grs.; 3300 fps/1813 ft.lbs.
Hunting Load: IMR-4350/44.6 grs.; 3400 fps/1925 ft.lbs.
Sierra does not recommend MatchKing Bullets for hunting applications

INDICATES MAXIMUM LOAD - USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

243 Winchester; continued

.243 80 gr. Blitz BT
Cartridge OAL: 2.635"

.243 85 gr. Spitzer
Cartridge OAL: 2.650"

.243 85 gr. HPBT
Cartridge OAL: 2.650"

Powder ↓ / Velocity →	2800	2900	3000	3100	3200	3300
IMR-3031	31.4	32.9	34.4	35.9	37.5	
748	33.3	34.7	36.1			
BL-C(2)	33.3	34.6	36.0			
IMR-4895	31.8	33.3	34.8	36.3	37.8	
IMR-4064	33.7	34.9	36.1	37.3	38.6	
IMR-4320	34.7	36.2	37.7	39.2		
Viht N140		30.5	32.2	33.9	35.6	37.3
H380	34.5	35.8	37.1	38.5		
760			39.5	41.0	42.5	
IMR-4350	37.4	38.7	40.1	41.5	42.9	
Norma 204		41.3	42.3	43.3	44.3	45.3
IMR-4831		40.2	41.7	43.2	44.6	
AA-3100	40.5	41.7	42.9	44.1		
H450				44.0	45.4	46.8
H4831			43.1	44.4	45.7	
Energy/ft.lbs.	*1479*	*1587*	*1698*	*1813*	*1932*	*2055*

Accuracy Load: IMR-4064/37.3 grs.; 3100 fps/1813 ft.lbs.
Hunting Load: IMR-4064/37.3 grs.; 3100 fps/1813 ft.lbs.

INDICATES MAXIMUM LOAD - USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

243 Winchester, continued

.243 90 gr. FMJBT
Cartridge OAL: 2.650"

Powder ↓ / Velocity →	2700	2800	2900	3000	3100
IMR-3031	30.7	32.4	34.0	35.6	
BL-C(2)	33.1	34.6	36.0		
IMR-4895	32.2	33.6	34.9	36.2	37.5
VARGET	31.3	32.4	33.5	34.6	
IMR-4064	31.6	33.3	35.0	36.8	38.5
IMR-4320		34.1	35.7	37.3	38.8
H380	34.6	36.2	37.7		
Viht N150		30.7	32.7	34.8	
IMR-4350	37.0	38.4	39.8	41.2	42.6
AA-4350	36.9	38.1	39.3		
H450			42.0	43.7	45.4
H4831		42.0	43.5	44.9	46.3
Energy/ft.lbs.	*1457*	*1566*	*1680*	*1798*	*1920*

Accuracy Load: IMR-4320/37.3 grs.; 3000 fps/1798 ft.lbs.
Hunting Load: IMR-4320/37.3 grs.; 3000 fps/1798 ft.lbs.

INDICATES MAXIMUM LOAD - USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

243 Winchester, continued

.243 100 gr. Spitzer
Cartridge OAL: 2.650"

.243 100 gr. Semi-Pointed
Cartridge OAL: 2.650"

.243 100 gr. Spitzer BT
Cartridge OAL: 2.650"

Powder ↓ / Velocity →	2500	2600	2700	2800	2900	3000
IMR-3031		30.6	32.2	33.8	35.5	
H335		31.3	32.5	33.6		
748		30.9	32.6			
BL-C(2)	31.1	32.6	34.2			
IMR-4895		31.5	33.0	34.6	36.2	
VARGET		30.0	31.4	32.8	34.2	
IMR-4064		31.0	32.7	34.5	36.3	
IMR-4320			34.5	36.0	37.5	39.0
H380		32.8	34.6	36.4		
760			35.7	37.5	39.2	
AA-4350	34.5	36.0	37.5	39.0		
IMR-4350		36.0	37.5	39.1	40.7	42.3
Norma 204	34.4	36.1	37.8	39.6		
IMR-4831			39.2	40.9	42.6	44.2
H450				41.2	43.2	45.2
H4831			40.2	41.7	43.3	44.9
Viht N165	37.7	39.5	41.3	43.0		
Energy/ft.lbs.	*1388*	*1501*	*1618*	*1741*	*1867*	*1998*

Accuracy Load: IMR-4350/39.1 grs.; 2800 fps/1741 ft.lbs.
Hunting Load: IMR-4350/40.7 grs.; 2900 fps/1867 ft.lbs.

INDICATES MAXIMUM LOAD - USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

243 Winchester, continued

.243 107 gr. MatchKing HPBT
Cartridge OAL: 2.850"

Powder ↓ / Velocity →	2400	2500	2600	2700	2800	2900
VARGET	28.5	29.7	30.9	32.1	33.4	
H4350		33.5	35.0	36.5	38.0	39.6
IMR·4350			37.7	38.7	39.8	40.8
Norma 204	34.1	35.6	37.1	38.8		
AA·4350	33.8	35.3	36.8	38.2		
RE19			39.8	41.0	42.3	43.5
IMR·4831			39.6	40.4	41.2	42.0
AA·3100			38.5	39.6	40.8	41.9
Viht N185	37.7	39.3	40.9	42.5		
H4831		36.8	38.2	39.6	41.0	42.5
RE 22			39.1	40.5	42.0	43.5
IMR·7828			41.3	42.2	43.1	44.0
H1000			43.1	44.3	45.5	48.8
Energy/ft.lbs.	*1369*	*1485*	*1607*	*1732*	*1863*	*1999*

Accuracy Load: H1000/44.3 grs.; 2700 fps/1732 ft.lbs.
Sierra does not recommend MatchKing bullets for hunting applications

INDICATES MAXIMUM LOAD · USE CAUTION
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

.243 Winchester - Speer Bullets

Although metric designations sound European, the 6mm (0.243") bore was an American development. Winchester introduced a military cartridge, the 6mm Lee Navy, in 1895 and offered a sporting version. However, the smokeless propellants of that era were not well-suited to smaller bores, and the cartridge failed to gain lasting popularity.

Wildcat cartridges using the 6mm bullet begin to show up between 1930 and 1950. Experimenters like Warren Page and RCBS's Fred Huntington built 6mm wildcats using the 308 Winchester and 257 Roberts cases, respectively. These cartridges performed well on both varmints and deer-sized game and pointed the way for commercial development of similar cartridges.

In 1955, Winchester developed the 243 by simply necking down the 308 Winchester case. The case was a natural for light, short-action sporters. The 243 is excellent for varmints and smaller varieties of deer, so many one-gun hunters choose it for its versatility. Factory loads offer an 80 grain bullet for varmints, and a 100 grain bullet for deer; the handloader has a better selection.

The 243 became very popular and most major rifle makers now offer it as a standard cartridge. Because of its light recoil, the 243 is often picked as the first rifle for new shooters. Although it has adequate power for game animals up to and including deer and antelope, it is definitely underpowered for elk, moose and caribou.

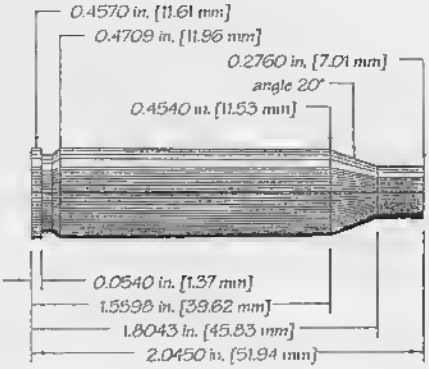
For animals at the upper end of the cartridge's capabilities, the 100 grain Speer Grand Slam offers the bullet integrity for deep penetration. For varmints, the 70 grain TNT and 75 grain hollow point are excellent choices.

Even though the case is relatively small, slower-burning propellants gave the best velocities. We found that 4350, Reloder 19 and similar propellants performed best with most bullets weights.

Note that the data for the heavier Speer bullets are listed in two groups. In the 243 Winchester, the 100 grain boat tail produces significantly different pressures than the 100 grain Grand Slam and the 105 grain spitzer. WE EMPHATICALLY RECOMMEND THAT THESE LOADS NOT BE USED WITH BULLETS OF OTHER MAKES AND THAT YOU ALWAYS WORK UP FROM THE STARTING LOADS.

These loads do not exceed the industry maximum pressure of 52,000 cup.

.243 Winchester - Speer Bullets



Max. Case Length: 2.045"
Trim-to Length: 2.035"
Max. Cart. Length: 2.710"
RCBS Shellholder: #3
Barrel Length: 22"
Twist: 1-10"

Test Firearm: Ruger Model 77 MKII
Case: W-W
Primers: CCI 200, 250

.243" Dia. 70 Grain Sect. Density .169	6mm TNT-HP					
Ballistic Coefficient	0.282					
C.O.L. Tested At	2.625"					
Speer Part No.	1206					

Powder	Wt. Grs.	Mzl.Vel.	Powder	Wt. Grs.	Mzl.Vel.	Powder	Wt. Grs.	Mzl.Vel.
	42.0	3500		47.0	3398	AA 3100	48.0C	3225
Varget	38.0	3230	H414*	43.0	3054		44.0	2902
	48.0C	3457	IMR 4831	49.0C	3388	IMR 7828	50.0C	3216
H4350	44.0	3094		45.0	3090		46.0	2882
Viht. N160	49.0C	3441		45.0	3383	Hodgdon 4831SC	49.0C	3164
	45.0	3136	H380*	41.0	3130		45.0	2945
	50.0C	3428		46.0	3333	AA 2700*	45.0	3119
Re19	46.0	3103	760*	42.0	3003		41.0	2767
IMR 4350	47.0C	3401	IMR 4064	41.0	3286			
	43.0	3067		37.0	2988			

Notes. Bold print denotes maximum loads. They should be used with caution. C = Compressed Load
* CCI Magnum Primer used with this powder.

.243 WINCHESTER - SPEER BULLETS

.243" Dia. 75 Grain Sect. Density .181	6mm HP					
Ballistic Coefficient	0.234					
C.O.L. Tested At	2.625"					
Speer Part No.	1205					

Powder	Wt. Grs.	Mzl.Vel.	Powder	Wt. Grs.	Mzl.Vel.	Powder	Wt. Grs.	Mzl.Vel.
	41.0	3388	IMR	47.5C	3252		43.5	3189
Varget	37.0	3111	4831	43.5	3004	H380*	39.5	2984
IMR	46.0	3326	AA	42.0	3249	IMR	39.5	3189
4350	42.0	3011	2700*	38.0	2986	4064	35.5	2888
	46.5C	3324	AA	47.5C	3214	Hodgdon	49.0C	3179
H4350	42.5	3031	3100	43.5	2884	4831SC	45.0	2963
	48.0C	3288	IMR	50.0C	3198		44.5	3175
Re19	44.0	2988	7828	46.0	2941	H414*	40.5	2909
	45.0	3284	Vlht.	45.5	3190			
760*	41.0	2999	N160	41.5	2920			

Notes: Bold print denotes maximum loads. They should be used with caution. C = Compressed Load
* CCI Magnum Primer used with this powder.

.243 WINCHESTER - SPEER BULLETS

.243" Dia. 80 Grain Sect. Density .194	6mm Spitz-SP					
Ballistic Coefficient	0.365					
C.O.L. Tested At	2.625"					
Speer Part No.	1211					

Powder	Wt. Grs.	Mzl.Vel.	Powder	Wt. Grs.	Mzl.Vel.	Powder	Wt. Grs.	Mzl.Vel.
IMR 7828	**50.0C**	**3312**	760*	**44.0**	**3199**	Viht. N160	**44.0**	**3118**
	46.0	3008		40.0	2920		40.0	2884
Varget	**40.0**	**3308**	H414*	**44.0**	**3188**	IMR 4320	**40.0**	**3110**
	36.0	3059		40.0	2905		36.0	2797
H4350	**46.0C**	**3279**	IMR 4831	**46.0**	**3165**	H380*	**41.0**	**3054**
	42.0	2980		42.0	2873		37.0	2738
Hodgdon 4831SC	**49.0C**	**3260**	IMR 4064	**39.0**	**3159**	AA 2700*	**41.0**	**3032**
	45.0	3017		35.0	2880		37.0	2734
IMR 4350	**45.0**	**3226**	AA 3100	**47.0C**	**3147**	Re19	**47.0C**	**2952**
	41.0	2929		43.0	2865		43.0	2649

Notes: Bold print denotes maximum loads. They should be used with caution. C = Compressed Load
* CCI Magnum Primer used with this powder.

.243 WINCHESTER - SPEER BULLETS

.243" Dia. 85 Grain Secl. Density .206	6mm Spitz-BT					
Ballistic Coefficient	0.404					
C.O.L. Tested At	2.625"					
Speer Part No.	1213					

Powder	Wt. Grs.	Mzl.Vel.	Powder	Wt. Grs.	Mzl.Vel.	Powder	Wt. Grs.	Mzl.Vel.
	46.0C	**3235**		**41.0**	**3136**		**42.0**	**3065**
H4350	42.0	2914	AA **2700***	37.0	2701	**H380***	38.0	2779
	39.0	**3212**		**47.0C**	**3113**		**44.0**	**3053**
Varget	35.0	2969	AA **3100**	43.0	2865	Viht. **N160**	40.0	2784
	46.0	**3172**		**43.0**	**3098**		**43.0**	**3017**
IMR **4831**	42.0	2837	**760***	39.0	2837	IMR **4350**	39.0	2753
	47.0	**3145**		**43.0**	**3090**		**38.0**	**3004**
Re19	43.0	2879	**H414***	39.0	2769	IMR **4064**	34.0	2709
	49.0C	**3136**		**48.0C**	**3074**	Reduced Load	**19.0**	**2005**
IMR **7828**	45.0	2863	Hodgdon **4831SC**	44.0	2845	IMR **4198**	17.0	1796

Notes: Bold print denotes maximum loads. They should be used with caution. C = Compressed Load
* CCI Magnum Primer used with this powder.

.243 WINCHESTER - SPEER BULLETS

.243" Dia. 90 Grain Sect. Density .218	6mm Spitz-SP					
Ballistic Coefficient	0.385					
C.O.L. Tested At	2.625"					
Speer Part No.	1217					

Powder	Wt. Grs.	Mzl.Vel.	Powder	Wt. Grs.	Mzl.Vel.	Powder	Wt. Grs.	Mzl.Vel.
	38.0	3094		42.0	2959		39.0	2890
Varget	34.0	2832	Viht. N160	38.0	2671	H380*	35.0	2571
	45.0	3025		41.0	2947		36.0	2882
Re19	41.0	2795	760*	37.0	2706	IMR 4064	32.0	2628
AA	45.0	2988	IMR	43.0	2927	AA	39.0	2871
3100	41.0	2709	4831	39.0	2677	2700*	35.0	2543
	43.0	2971		41.0	2922	IMR	47.0C	2710
H4350	39.0	2734	H414*	37.0	2628	7828	43.0	2341
IMR	38.0	2969	IMR	41.0	2902	Reduced Load IMR	19.0	1990
4320	34.0	2660	4350	37.0	2647	4198	17.0	1766

Notes: Bold print denotes maximum loads. They should be used with caution. C = Compressed Load
* CCI Magnum Primer used with this powder.

.243 Winchester - Speer Bullets

.243" Dia. 100 Grain Sect. Density .242	6mm BT Spitz-SP					
Ballistic Coefficient	0.430					
C.O.L. Tested At	2.635"					
Speer Part No.	1220					

Powder	Wt. Grs.	Mzl.Vel.	Powder	Wt. Grs.	Mzl.Vel.	Powder	Wt. Grs.	Mzl.Vel.
	42.0	2766		37.0	2717	IMR 4350*	38.0	2698
H450*	38.0	2515	H380*	33.0	2512		34.0	2469
IMR 4831*	40.0	2743	IMR 7828*	42.0	2715	AA 2700*	35.0	2524
	36.0	2513		38.0	2424		31.0	2288
IMR 4320	35.0	2723	AA 3100	41.0	2707	760*	33.0	2503
	31.0	2504		37.0	2458		29.0	2279
Re19	39.0	2718	IMR 4064	33.0	2706	H414*	33.0	2450
	35.0	2493		29.0	2508		29.0	2270

Notes: Bold print denotes maximum loads. They should be used with caution. C = Compressed Load
* CCI Magnum Primer used with this powder.

.243 WINCHESTER - SPEER BULLETS

IMPORTANT NOTE: These loads MUST NOT be used with the Speer 100 gr. Boat Tail. See previous page for 100 BT data.

.243" Dia. 100 Grain 105 Grain	6mm GS-SP	6mm Spitz-SP				
Sectional Density	0.242	0.254				
Ballistic Coefficient	0.351	0.443				
C.O.L. Tested At	2.580"	2.625"				
Speer Part No.	1222	1229				

Powder	Wt. Grs.	Mzl.Vel.	Powder	Wt. Grs.	Mzl.Vel.	Powder	Wt. Grs.	Mzl.Vel.
	42.0C	2869		42.0	2722	IMR	38.0	2651
H4350	38.0	2576	Re22	38.0	2510	4350	34.0	2418
AA	44.0C	2839		38.0	2690	IMR	34.0	2650
3100	40.0	2579	H380*	34.0	2435	4064	30.0	2414
IMR	43.0	2771	IMR	40.0	2688		38.0	2640
7828	39.0	2433	4831	36.0	2492	H414*	34.0	2394
Viht.	40.0	2739	AA	39.0	2684		37.0	2607
N160	36.0	2526	2700*	35.0	2466	760*	33.0	2359
	41.0	2731	IMR	35.0	2658	Reduced Load IMR	20.0	1965
Re19	37.0	2578	4320	31.0	2391	4198	18.0	1752

Notes: Bold print denotes maximum loads. They should be used with caution. C = Compressed Load
* CCI Magnum Primer used with this powder.

Reloading Data Introduction:

The data listed in this section have been tested by our technicians and found to be safe when loaded with our test components and fired (under our laboratory controlled conditions) in our testing equipment. Since Lyman Products Corporation has no control over the manufacture of the various components listed, the actual loading, choice or condition of the firearms and components used, no responsibility for use of this data is implied or assumed.

Components:

The reader should bear in mind that the components listed are not of Lyman manufacture. Therefore, it is impossible that production changes affecting ballistic performance can occur at any time without our knowledge. If there is ever a question as to the correctness of the component specified, write to its manufacturer.

Starting Load:

It is essential that the reader begin with the suggested weight of powder listed in this bracket and work up slowly (following load development precautions) to his best performing load. The novice should use only the "starting load" for a period of time until he builds confidence and experience. Never decrease this charge as an increase in pressure could be encountered.

Maximum Load:

All loads which are listed as maximum were tested and classified as maximum by our technicians in accordance with our laboratory standards. **Under no circumstances should these loads be exceeded,** nor should they be quickly accepted by the reader as a safe working maximum for his particular rifle or pistol.

Many reloaders misinterpret the meaning of the "maximum load." They wrongly assume that if a high pressure load proved safe in a test laboratory then it is equally safe under any and all conditions. This is not true. The reader must start with the "starting load" and work up his load carefully. Working with his particular firearm and component combination, he may encounter signs of excess pressure before he reaches the maximum charge listed.

The technician classifies a load as maximum after carefully considering many aspects of its ballistic performance. **The maximum average pressure of the load is not the only criteria.** Often a load having an acceptable maximum average pressure will be rejected (or reduced) due to its erratic performance. Accuracy must also be considered, particularly when dealing with cast lead alloy bullets. In all instances, the maximum listing represents what our technicians consider to be the maximum working combination for the bullet, powder and caliber listed. These loads do not exceed SAAMI standards.

Accuracy Loads:

When a load is noted as such in the data tables proper, it means that the given combination of components produced the most uniform internal ballistics of any load tested utilizing that particular bullet design.

Unless noted in "Comments," the accuracy load was not fired at targets. The load, however, does have a high potential–assuming all external factors are optimun–for producing outstanding accuracy since uniform internal ballistics are critical to accuracy on target. You cannot have one without the other.

Test Parameters:

Velocities shown were taken at fifteen feet and not corrected to the muzzle.

Each test string began with a clean dry barrel and consisted of ten shots.

Loads exhibiting erratic internal ballistics were not persued.

We had no problem with leading in any of our testing.

Bullets:

Bullet numbers are listed in the introductory specifications for each cartridge and in the headline above the appropriate data block–along with an illustration of that particular bullet.

Please note these bullets are artists' rendering. Comparing your bullet against the drawing could reveal minor differences. Furthermore, minor changes are sometimes made to bullets. These drawings, which appear throughout the data sections, are for general reference only and are not intended to be a precise representation.

Bullet alloy is noted as is the exact weight of each tested bullet.

Not all cast bullets within a given caliber are intended to perform equally. We have used them in the most appropriate chamberings.

Powders:

We have limited our testing to those powders which are manufactured in the United States and which are readily available to the consumer. The following brands are listed: Dupont (now IMR), Winchester, Hercules, Alcan, Hodgdon and Gearhart-Owen.

Compressed Loads:

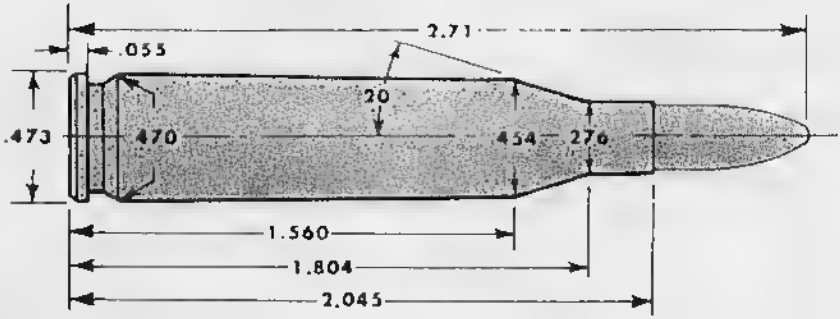
All compressed loads are indicated with a +. Depending upon the volume of the specific cartridge case used by the reader, he may, or may not, have difficulty starting bullets in such loads. If the bullet will not start, reduce the load sufficiently so that 1/10" of space remains in the case neck. Start the bullet into the case and use whatever additional pressure is required to fully seat the bullet. Failure to comply could result in a bulged case.

Filler Wads:

Dacron filler wads in the form of 1/4-inch thick batting were used in conjunction with cast bullet loads, where indicated. This material can be purchased in most yard-goods stores. It should be cut into squares, which seal the case.

When developing a load, if a wad is desired, its should be used from the beginning as the charge weight is increased. It should never be added as an afterthought, once a maximum load has been established, since its presence could result in a pressure increase of 2,000 CUP or more.

.243 WINCHESTER - LYMAN BULLETS



COMMENTS:

This is the most popular of all the 6mm diameter cartridges. While many would disagree, the late Les Bowman felt it the ideal deer or antelope cartridge for the shooter who really was not a frequent and comfortable user of larger cartridges.

The 243 is a fine varmint cartridge or an effective light big game round. Jacketed bullets up to 90 grains should generally be considered varmint types while those of 95 grains or more are light big game styles. Regardless of the bullet weight IMR 4350 is the universal first choice propellant. Premium grade bullets are a big asset to this small bore cartridge when it is used for light big game.

Cast bullets work best with velocities below 2,000 fps. Bullet #245496 is a prime choice for accuracy.

TEST COMPONENTS:

Cases	Remington
Trim to Length	2.035"
Primers	Remington 9½
Primer Size	Large Rifle
Lyman Shell Holder	No. 2
Cast Bullets Used	(Sized to .243" dia.)
*Gas Check Bullets	*#245496, 83 gr.
	*#245497, 90 gr.
	*#245498, 95 gr.

TEST SPECIFICATIONS: (Velocity & Pressure)

Firearm Used	Universal Receiver
Barrel Length	26"
Twist	1-10"
Groove Dia.	.243"

#245496
83 gr., (#2 Alloy) 2.480" OAL

POWDER	Sugg. Starting Grains	Velocity fps	Pressure C.U.P.	Max. Load Grains	Velocity fps	Pressure C.U.P.
Red Dot	10.0	1845	33,000	12.0	2032	40,300
700X	8.5	1684	30,500	10.5	1904	39,000
PB	9.0	1653	29,400	11.0	1836	36,400
SR-7625	9.5	1703	30,500	11.5	1909	39,400
SR-4756	11.0	1846	31,500	13.0	2013	38,600
SR-4759	14.9	1668	12,800	20.0	2156	21,400
IMR-4227	14.5	1623	11,900	19.7	2156	23,200
IMR-4198	16.0	1638	10,800	22.7	2175	19,200
RX7	16.0	1676	12,400	21.0	2092	20,200
748	26.1	2114	18,200	39.0	2906	43,800
H-335	25.8	2191	21,200	37.8	2926	46,000
H-4895	25.0	2126	17,300	37.2	2970	47,400
IMR-4320	28.2	2178	20,800	40.2	2996	45,700

Note: Loads shown in shaded panels are maximum.

.243 WINCHESTER - LYMAN BULLETS

#245497
90 gr., (#2 Alloy) 2.455" OAL

POWDER	Sugg. Starting Grains	Velocity fps	Pressure C.U.P.	Max. Load Grains	Velocity fps	Pressure C.U.P.
Red Dot	8.5	1611	27,000	11.5	1934	39,400
700X	7.5	1513	26,400	10.0	1762	37,300
PB	8.0	1477	23,400	10.5	1815	39,900
SR-7625	8.5	1521	25,800	11.0	1768	36,400
SR-4756	9.5	1586	26,400	12.5	1869	36,400
630	18.8	2146	28,400	23.8	2556	47,300
SR-4759	21.0	2182	28,000	26.2	2605	46,700
IMR-4227	20.9	2197	28,100	25.5	2537	44,500
IMR-4198	23.9	2198	23,500	30.7	2757	45,300
RX7	22.0	2157	24,200	29.6	2695	46,300
748	26.0	2077	19,300	38.0	2828	46,300
H335	25.0	2128	20,200	36.3	2790	47,300

#245498
95 gr., (#2 Alloy) 2.590" OAL

POWDER	Sugg. Starting Grains	Velocity fps	Pressure C.U.P.	Max. Load Grains	Velocity fps	Pressure C.U.P.
Red Dot	8.0	1482	22,800	10.0	1699	33,000
700X	7.0	1386	22,200	9.5	1653	34,500
PB	8.0	1424	24,600	10.0	1611	32,000
SR-7625	8.5	1463	27,000	10.5	1652	35,500
SR-4756	10.0	1550	26,400	12.0	1790	35,000
630	16.0	1803	19,700	23.5	2426	43,100
SR-4759	20.8	2112	29,800	25.8	2475	47,600
IMR-4227	19.3	2036	26,500	24.5	2456	46,600
IMR-4198	20.0	1826	16,500	30.2	2572	42,900
RX7	20.0	1874	20,000	32.0	2608	47,100

Note: Loads shown in shaded panels are maximum.

243 Winchester

Gun: Ruger Model 77
Barrel: 22"
Twist: 1-10
Cases: W-W
Primers: CCI 200, *250

243-095-SP 

Wt. 93 GR.
Dia. .243"
Lube: Rifle

POWDER	WT. IN GRAINS	MUZ VEL	POWDER	WT. IN GRAINS	MUZ VEL
H414	*23.0	1848	IMR **4227**	18.0	2118
	*21.0	1673		16.0	1923
IMR **4895**	21.0	1842	**2400**	15.0	1987
	19.0	1657		13.0	1735
Re7	20.0	2047	SR **7625**	11.0	1756
	18.0	1834		9.0	1537
SR **4759**	18.0	2159	**Red Dot**	10.0	1749
	16.0	1961		8.0	1531

24-100-FN 

Wt. 103 GR.
Dia. .243"
Lube: Rifle

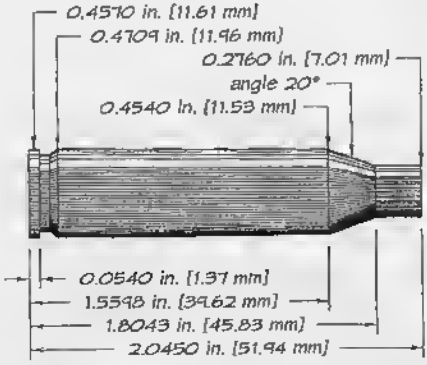
POWDER	WT. IN GRAINS	MUZ VEL	POWDER	WT. IN GRAINS	MUZ VEL
H414	*26.0	1988	IMR **4227**	19.0	2012
	*24.0	1818		17.0	1821
IMR **4895**	24.0	2013	**2400**	16.5	1977
	22.0	1825		14.5	1733
Re7	21.0	1970	SR **4756**	13.0	1813
	19.0	1789		11.0	1547
SR **4759**	19.0	2015	**Red Dot**	10.0	1610
	17.0	1828		9.0	1434

*DENOTES USE OF CCI #250 MAGNUM PRIMER

243 WINCHESTER

The 243 Winchester was introduced in 1955 by Winchester. It is based on the 308 WCF necked down to .243 inch. From the outset it challenged its major competition, namely the 244 Remington (aka 6mm Remington) and 257 Roberts, and won handily, as is witnessed by the decline in popularity of the other two. Much of the 243's popularity can be credited to the late Warren Page who spent much time touting its' all-around capabilities.

The 243 Winchester can group with the best of them and serves for deer sized game and varmints with equal success with appropriate bullet designs and weights. Many handloaders load everything from 60 grain bullets up through the 117 grain slugs with nothing but H4350 or H414. Save for preferences of individual rifles, that isn't bad advice.



WINCHESTER	1:10"
24"	2.035"

WINCHESTER LR

HODGDON

POWDER	STARTING LOADS GRS.	VEL.	PRESSURE	MAXIMUM LOADS GRS.	VEL.	PRESSURE
BULLET: 55 GR. NOS BT			**DIA. .243"**			**C.O.L. 2.650"**
H414	45.0	3611	37,400 CUP	50.0	3950	51,600 CUP
H380	46.0	3704	40,600 CUP	51.0	4010	48,700 CUP
VARGET	41.0	3776	42,000 CUP	45.0	4000	50,000 CUP
BL-C(2)	43.0	3779	42,600 CUP	47.0	4025	49,400 CUP
H4895	40.0	3638	35,100 CUP	44.5	4058	49,300 CUP
BULLET: 60 GR. SIE HP			**DIA. .243"**			**C.O.L. 2.600"**
H414	43.0	3423	38,600 CUP	47.5	3724	49,600 CUP
H380	43.0	3514	30,900 CUP	48.0	3781	47,400 CUP
VARGET	40.0	3671	45,400 CUP	42.7	3816	50,400 CUP
H335	35.0	3445	41,400 CUP	39.0	3717	50,300 CUP
H4895	38.0	3521	40,500 CUP	42.0	3812	50,600 CUP
BULLET: 65 GR. HDY V-MAX			**DIA. .243"**			**C.O.L. 2.600"**
H414	45.0	3521	41,400 CUP	48.0	3746	49,400 CUP
H380	42.0	3448	45,200 CUP	45.0	3627	50,000 CUP
VARGET	38.0	3494	43,100 CUP	41.0	3682	49,600 CUP
BL-C(2)	39.0	3493	47,300 CUP	42.0	3612	49,500 CUP
H4895	38.0	3522	44,500 CUP	41.0	3677	49,200 CUP
BULLET: 70 GR. SPR HP			**DIA. .243"**			**C.O.L. 2.625"**
H414	42.0	3314	41,600 CUP	46.0	3568	49,000 CUP
H380	42.0	3349	42,900 CUP	46.0	3567	40,900 CUP
VARGET	38.0	3433	45,500 CUP	40.5	3574	50,100 CUP
BL-C(2)	35.0	3228	47,900 CUP	39.0	3384	50,400 CUP
H4895	36.0	3286	42,700 CUP	39.5	3477	49,200 CUP
BULLET: 75 GR. HDY HP			**DIA. .243"**			**C.O.L. 2.640"**
H414	42.0	3203	41,100 CUP	46.0	3447	50,100 CUP
H380	40.0	3127	42,700 CUP	44.5	3393	48,600 CUP
VARGET	36.0	3246	45,000 CUP	38.5	3408	50,500 CUP
BL-C(2)	34.0	3041	45,100 CUP	37.5	3185	49,200 CUP
H4895	34.0	3101	40,900 CUP	38.0	3354	49,400 CUP
BULLET: 80 GR. SIE BTSP			**DIA. .243"**			**C.O.L. 2.635"**
H414	42.0	3249	46,300 CUP	45.0	3404	50,100 CUP
H380	38.0	3047	44,700 CUP	41.2	3223	50,300 CUP
VARGET	36.0	3193	45,400 CUP	38.5	3355	50,300 CUP
BL-C(2)	35.0	3083	47,100 CUP	38.5	3242	50,600 CUP
H4895	35.0	3123	45,800 CUP	38.0	3307	50,100 CUP

HODGDON CONTINUED

POWDER	STARTING LOADS GRS.	VEL.	PRESSURE	MAXIMUM LOADS GRS.	VEL.	PRESSURE
BULLET: 85 GR. BAR XBTC			**DIA. .243"**			**C.O.L. 2.560"**
H4350	42.0	2967	39,700 CUP	45.5 C	3214	49,600 CUP
H414	42.0	3048	41,400 CUP	45.0	3306	50,200 CUP
H380	40.0	2967	43,400 CUP	43.0	3134	48,800 CUP
VARGET	35.0	3019	44,200 CUP	38.0	3212	50,400 CUP
H4895	35.0	3015	45,100 CUP	38.0	3186	49,900 CUP
BULLET: 90 GR. SPR SP			**DIA. .243"**			**C.O.L. 2.625"**
H4831	45.0	3010	43,700 CUP	48.0 C	3203	50,800 CUP
H4350	42.0	3039	44,400 CUP	44.5	3185	50,600 CUP
H414	41.0	3024	43,600 CUP	43.5	3185	49,600 CUP
H380	38.0	2892	43,100 CUP	40.5	3060	49,500 CUP
VARGET	34.0	2964	44,800 CUP	36.5	3106	50,400 CUP
H4895	34.0	2967	44,900 CUP	36.5	3114	50,800 CUP
BULLET: 95 GR. NOS PART			**DIA. .243"**			**C.O.L. 2.650"**
H1000	45.0	2946	44,900 CUP	48.0 C	3077	50,000 CUP
H4831	42.0	2930	47,000 CUP	44.5 C	3052	50,700 CUP
H4350	39.0	2917	45,800 CUP	42.0	3087	50,500 CUP
H414	39.0	2933	43,800 CUP	42.0	3138	50,700 CUP
H380	36.0	2779	43,000 CUP	38.0	2922	49,100 CUP
VARGET	33.0	2870	45,000 CUP	35.0	2996	50,200 CUP
H4895	33.0	2865	45,000 CUP	35.0	2990	50,700 CUP
BULLET: 100 GR. SPR BTSP			**DIA. .243"**			**C.O.L. 2.650"**
H1000	44.0	2876	45,700 CUP	47.0 C	3000	49,800 CUP
H4831	39.0	2761	44,400 CUP	42.0	2924	50,100 CUP
H4350	37.0	2806	45,100 CUP	40.0	2973	51,000 CUP
H414	37.0	2800	44,500 CUP	40.0	2963	50,600 CUP
H380	34.0	2639	43,600 CUP	36.0	2770	50,100 CUP
VARGET	31.0	2674	42,700 CUP	33.7	2838	50,400 CUP
H4895	31.0	2683	44,900 CUP	33.0	2818	50,100 CUP
BULLET: 105 GR. HDY A-MAX			**DIA. .243"**			**C.O.L. 2.760"**
H1000	43.0	2798	45,400 CUP	46.0 C	2930	50,200 CUP
H4831	38.0	2687	43,900 CUP	41.0	2846	50,200 CUP
H4350	35.0	2663	44,300 CUP	37.5	2799	49,500 CUP
H414	36.0	2692	43,700 CUP	39.0	2862	50,100 CUP
H380	33.0	2589	43,700 CUP	35.0	2687	49,800 CUP
VARGET	31.0	2631	45,600 CUP	33.0	2769	50,800 CUP
H4895	30.5	2619	44,900 CUP	32.5	2724	50,100 CUP

HODGDON CONTINUED

POWDER	STARTING LOADS GRS.	VEL.	PRESSURE	MAXIMUM LOADS GRS.	VEL.	PRESSURE
BULLET: 107 GR. SIE BTHP			DIA. .243"			C.O.L. 2.850"
H1000	43.0	2787	44,700 CUP	46.0 C	2918	50,100 CUP
H4831	38.0	2678	43,700 CUP	41.0	2835	50,100 CUP
H4350	35.0	2671	43,100 CUP	37.5	2800	50,200 CUP
H414	35.0	2664	43,400 CUP	38.0	2809	49,500 CUP
H380	33.0	2570	44,400 CUP	34.8	2682	50,100 CUP
VARGET	31.0	2630	45,300 CUP	33.0	2749	50,400 CUP
H4895	30.5	2613	45,900 CUP	32.5	2719	49,900 CUP

NEVER EXCEED MAXIMUM LOADS.

Introduction

There has been a re-evaluation of the criteria for selecting data for inclusion. This means there will be some disagreement with previous data. The data in this guide takes precedence over **all** prior publications. ***Previous editions of this loading guide should be discarded.***

For instance, we left out load combinations that were 'position sensitive'. This is what occurs when the load density is low. Velocity with the powder at the bullet is different from the velocity with the powder at the primer. More of these were noted with the ball propellants than with the extruded propellants.

In light of the growth of IPSC shooting, 38 Super Auto loads that make the 'major' classification (bullet weight x velocity = 175,000) are identified. While we have tested many combinations of components in 9mm Luger to attempt to meet 'major' requirements, we have not been able to find a load that makes the power floor for 'major' without exceeding SAAMI pressure recommendations. And while we were able to find loads for 38 Super Auto, they were not with lighter bullets. Turn to the data section for specific details.

In the charge tables, the 'START' charge listed for each load is our suggested beginning point with the components listed. There is the possibility that changing the named components could cause the maximum charge to be excessive, thus a reduction of the charge would be necessary. Some batches of military brass may require reducing the maximum charge by 8-12% to keep chamber pressure in line.

If you find signs of excessive pressure while using loads in this loading guide, STOP TESTING and verify all data and loading procedures. If they seem to be in order, check with our lab facility before proceeding.

Charge weights were obtained using industry standard pressure barrels. When time permitted, off-the-shelf weapons were used to obtain velocity figures. The guns used are noted.

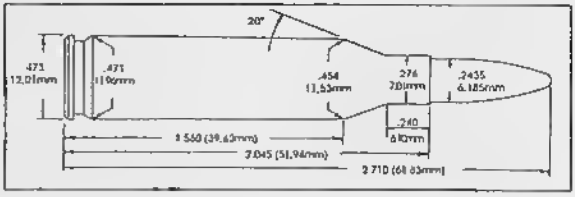
In reloading, the prime concern should always be SAFETY. **Always** wear eye protection when reloading, even when working with the 'non-volatile' components. **Always** keep the reloading area clean. **Never** have more than one propellant within easy reach at any given time. Avoid having similar looking bullets of different weights on the bench at the same time. Read the safety notes before loading.

We have not found magnum primers to offer any particular advantage with our handgun powders. But, there are some rifle cartridges where they were used.

Handgun loads using the slower powders (No.7, No.9, and 1680) require heavy crimp and high bullet pull to insure consistency - particularly with cast bullet loads or in extremely cold weather. Be sure your dies are capable of this, otherwise the consistency of the load will be affected.

In the text, bullet weights for cast bullets - identified by (L) are actual weights, not the nominal weights.

.243 WINCHESTER



Introduced by Winchester in 1955 for the Model 70 bolt action and Model 88 lever action rifles, the .243 Winchester is simply a necked-down .308 Winchester and is the result of a successful effort to develop a dual purpose cartridge for both varmint and deer-sized game.

Unlike the .308, the .243 can be a difficult cartridge to load with "faster" propellants. The best choice for all-around use in the .243 is either **Accurate 4350** or **3100**.

The SAAMI Maximum Average Pressure for the .243 Winchester is 52,000 C.U.P.

.243 WINCHESTER

Gun	HS PRECISION	Max Length	2.045"
Barrel Length	24"	Trim Length	2.025"
Primer	CCI 200	OAL Max	2.710"
Case	WW	OAL Min	2.540"

Bullet	START LOADS Powder	Grains	Vel.	MAXIMUM LOADS Powder	Grains	Vel.	C.U.P.	Cartridge Length	Crimp
SRA 60 HP	2015BR	34.2	3244	2015BR	38.0	3686	50,600	2.580"	
	2230	38.0	3478	2230	40.0	3700	50,800		
	2460	38.0	3466	2460	40.0	3687	50,500		
	2495BR	36.0	3232	2495BR	40.0	3873	51,500		
	2520	38.0	3376	2520	40.0	3591	49,900		
	2700	41.9	3225	2700	48.5	3665	50,800		
	4350	43.2	3196	4350	48.0	3632	48,300		
	3100	43.2	2915	3100	48.0	3313	43,400		
HDY 70 SX	2015BR	32.9	2988	2015BR	36.5	3395	46,800	2.650"	
	2230	36.6	3224	2230	38.5	3430	50,200		
	2460	37.1	3234	2460	39.0	3440	50,400		
	2495BR	35.1	3070	2495BR	39.0	3489	49,900		
	2520	37.1	3163	2520	39.0	3365	48,200		
	2700	40.5	3078	2700	45.0	3498	50,100		
	4350	43.2	3107	4350	48.0	3531	47,600		Compressed
	3100	43.2	2830	3100	48.0	3216	42,200		Compressed

.243 WINCHESTER (continued)

Bullet	START LOADS Powder	Grains	Vel.	MAXIMUM LOADS Powder	Grains	Vel.	C.U.P.	Cartridge Length	Comment
SPR 80 SP	2015BR	30.2	2746	2015BR	33.5	3121	48,200	2.700"	
	2495BR	32.4	2842	2495BR	36.0	3230	50,900		
	2520	32.3	2830	2520	34.0	3011	47,800		
	2700	39.9	3039	2700	42.0	3293	50,400		
	4350	39.6	2918	4350	44.0	3316	47,900		
	3100	42.3	2878	3100	47.0	3271	49,000		Compressed
SRA 85 HPBT	2495BR	31.5	2703	2495BR	35.0	3072	48,700	2.660"	
	2700	39.0	2952	2700	41.0	3140	49,200		
	4350	39.6	2899	4350	44.0	3294	49,800		
	3100	41.4	2756	3100	46.0	3132	46,800		
NOS 95 SP	2495BR	29.7	2535	2495BR	33.0	2881	51,400	2.700"	
	2700	37.1	2740	2700	39.0	2915	49,700		
	4350	38.0	2680	4350	40.0	3045	50,700		
	3100	39.8	2649	3100	44.0	3010	49,300		
SPR 100 SBT	2495BR	27.0	2335	2495BR	30.0	2653	50,300	2.700"	
	2700	34.2	2588	2700	36.0	2753	48,300		
	4350	35.1	2623	4350	39.0	2981	51,800		
	3100	38.7	2610	3100	43.0	2956	51,900		

ALLIANT

CASE: WINCHESTER	BARREL: 24"		PRIMER: WINCHESTER LR
BULLET: 60 GR. SIE HP	**DIA. .243"**		**C.O.L. 2.550"**
RELODER 12	38.5	3450	56,400 PSI
RELODER 7	30.2	3320	54,800 PSI
BULLET: 75 GR. SPR HP	**DIA. .243"**		**C.O.L. 2.610"**
RELODER 12	34.0	3125	57,500 PSI
BULLET: 80 GR. SPR SP	**DIA. .243"**		**C.O.L. 2.605"**
RELODER 19	44.5	3270	57,500 PSI
RELODER 15	36.5	3145	57,500 PSI
RELODER 12	34.0	3060	57,000 PSI
BULLET: 100 GR. SIE SPBT	**DIA. .243"**		**C.O.L. 2.700"**
RELODER 22	41.7	2950	57,500 PSI
RELODER 19	41.0	2925	57,100 PSI

NEVER EXCEED MAXIMUM LOADS.

.243 WINCHESTER - IMR POWDERS

IMR

CASE: REMINGTON | BARREL: 22" | PRIMER: REMINGTON 9 1/2

BULLET: 80 GR. REM SP | DIA. .243" | C.O.L. 2.640"

IMR 4831	48.5 C	3265	46,900 CUP
IMR 4350	48.0 C	3345	51,700 CUP
IMR 4320	42.5	3280	51,700 CUP
IMR 4064	42.5	3360	52,000 CUP
IMR 4895	41.0	3305	52,000 CUP
IMR 3031	39.5	3260	51,100 CUP

IMR CONTINUED

	STARTING LOADS			MAXIMUM LOADS		
POWDER	GRS.	VEL.	PRESSURE	GRS.	VEL.	PRESSURE
BULLET: 100 GR. REM SPCL			DIA. .243"			C.O.L. 2.710"
IMR 7828				47.0 C	3050	47,900 CUP
IMR 4831				46.0 C	3010	51,800 CUP
IMR 4350				43.5	2980	51,300 CUP
IMR 4320				39.5	2950	52,000 CUP
IMR 4064				38.0	2910	51,000 CUP
IMR 4895				37.0	2910	52,000 CUP
IMR 3031				35.5	2825	51,300 CUP

NEVER EXCEED MAXIMUM LOADS.

.243 WINCHESTER - SCOT POWDERS

4065

Powder Charge	Bullet Weight & Type	Muzzle Velocity
38.0 grains	60 grain FMJ	3,310 fps
42.0 grains	60 grain FMJ	3,500 fps
38.0 grains	70 grain FMJ	3,190 fps
41.0 grains	70 grain FMJ	3,380 fps
35.5 grains	80 grain FMJ	3,040 fps
39.5 grains	80 grain FMJ	3,240 fps
34.5 grains	90 grain FMJ	2,950 fps
38.5 grains	90 grain FMJ	3,150 fps
33.0 grains	100 grain FMJ	2,750 fps
36.0 grains	100 grain FMJ	2,900 fps

4351

Powder Charge	Bullet Weight & Type	Muzzle Velocity
43.0 grains	60 grain FMJ	3,250 fps
46.0 grains	60 grain FMJ	3,490 fps
42.5 grains	70 grain FMJ	3,160 fps
44.5 grains	70 grain FMJ	3,410 fps
40.0 grains	80 grain FMJ	3,090 fps
43.5 grains	80 grain FMJ	3,300 fps
39.0 grains	90 grain FMJ	3,000 fps
42.5 grains	90 grain FMJ	3,160 fps
38.0 grains	100 grain FMJ	2,890 fps
41.5 grains	100 grain FMJ	3,050 fps

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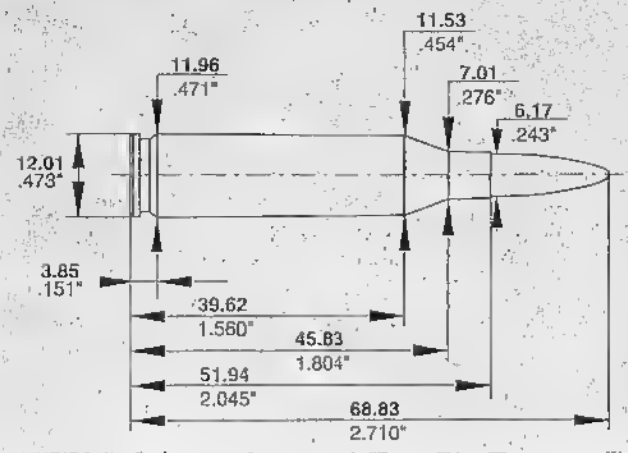
WINCHESTER

CASE: WINCHESTER	BARREL: 24"	PRIMER: WINCHESTER LR	
BULLET: 75 GR. WIN HP	**DIA. .243"**	**C.O.L. 2.710" MAX**	
760	43.0	3320	49,000 CUP
BULLET: 80 GR. WIN PSP	**DIA. .243"**	**C.O.L. 2.710" MAX**	
760	43.5	3280	51,000 CUP
BULLET: 85 GR. WIN HP	**DIA. .243"**	**C.O.L. 2.710" MAX.**	
760	40.5	3150	49,000 CUP

NEVER EXCEED MAXIMUM LOADS.

.243 Winchester

CIP max. dimensions in millimetres, SAAMI in inches



Country of origin:	**USA**
Year of introduction:	**1955**
Primer:	**Large Rifle**
Max. bullet diameter:	**6.17 mm (.243")**
Max. cartridge length:	**68.83 mm (2.710")**
Max. shell length:	**51.94 mm (2.045"), trim to 51.80 mm (2.035")**
Max. CIP pressure:	**360 MPa (52200 psi)**
Max. SAAMI pressure	**52000 CUP/60000 psi**

.243 Winchester was formed simply by necking a .308 Win. case down to accept a 6.18 mm (.243") bullet. The company did this fairly quickly after the introduction of .308 Winchester (q.v.).

The general idea was to create a cartridge with a lighter and slimmer bullet, reducing the recoil, increasing the muzzle velocity and perhaps even cutting down the cost of shooting. Winchester succeeded in a grand manner, for .243 Win. is now widely known all over the world. It is considered a medium-sized game cartridge for deer, coyote, antelope and the like.

As always, it is easy to handload a popular caliber. Components are available in plenty, as are instructions and recipes. The generous powder space gives experimenters plenty of elbow room. It should be borne in mind, however, that .243 Win. is a high pressure cartridge to start with. It is possible to blow up a gun if too fast a powder/too heavy a bullet or a combination of these is used. Of course, this is true with most calibers.

On the other hand, one manufacturer warns of using too slow a powder in this caliber. Vihtavuori recommends the slower end of the powders, ranging from N140 to N160.

.243 Winchester

TEST COMPONENTS:

Test barrel: 580mm (23"), 1 in 10" twist, manufactured to meet CIP minimum dimensions.

Primers: Vihtavuori No. 68

Cases: Sako, trim to length 51.80 mm (2.039")

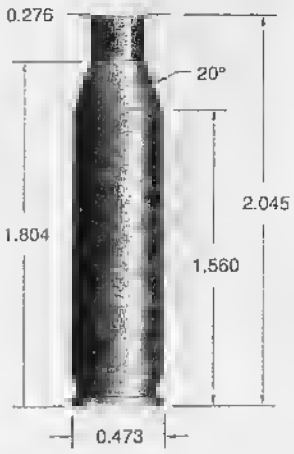
Reloading Data, English Units:

Bullet				Powder	Starting Load			Maximum Load		
Weight [grs]	Type	Mfg.	O.A.L. [in.]	Type	Weight [grs]	Velocity [fps]	Pressure [psi]	Weight [grs]	Velocity [fps]	Pressure [psi]
70	SXSP	Hornady	2.638	N133	33.4	3084	45700	36.8	3219	50800
				N135	36.4	2957	35500	40.5	3310	50800
				N140	38.7	3003	36300	43.2	3389	50800
				N150	39.7	3019	36300	44.1	3384	50800
				N160	46.1	3004	33400	51.3	3451	50800
80	FMJ	Hornady	2.638	N135	33.6	2837	42100	37.0	3044	50800
				N140	35.6	2856	42100	39.4	3092	50800
				N150	35.0	2876	44200	38.9	3068	50800
				N160	43.6	2869	37700	48.6	3222	50800
87	HPBT	Hornady	2.677	N140	34.2	2738	41300	38.3	2974	50800
				N150	33.7	2757	44200	37.9	2947	50800
				N160	41.9	2744	37000	46.6	3084	50800
				N560	43.2	2890	42000	48.0	3149	50800
100	SPBT	Hornady	2.650	N160	40.8	2615	38400	45.3	2903	50800
				N560	41.3	2697	41300	45.7	2962	50800
				N165	44.0	2647	39900	49.3	2932	50800
105	Spitzer	Speer	68.5	N160	35.2	2440	43500	39.2	2634	50800
				N560	35.2	2486	42800	38.8	2719	50800

INDICATES MAXIMUM LOAD - USE WITH CAUTION!
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED

.243 Winchester - Barnes Bullets

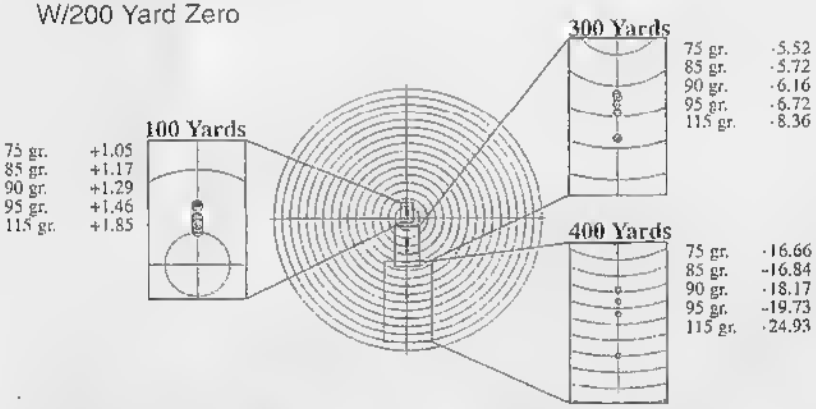
The .243 Winchester is one of four factory chambered rounds based on the .308 WCF case. It was introducedin 1955 and is nothing more than a .308 case necked down to accept .243" bullets. It performs equally well on both varmints and deer, and everything in between.



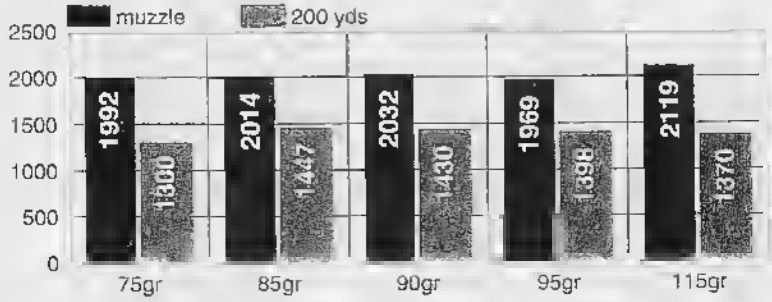
Case: Winchester	*Parent Case:* 308 Winchester
Primer: Federal 210	*Trim To:* 2.035"
Barrel: 24"	*Case Capacity:* 52.81 grs.(water)

BULLET DROP COMPARISON

W/200 Yard Zero



BULLET ENERGIES



.243 Winchester

75-grain XFB
S.D. .181 B.C. .307

Suggested Bullet Use

75-grain Solid
S.D. .181 B.C. .330

Suggested Bullet Use

Powder	Charge Weight (grains)	Velocity (fps)	Maximum Load	Velocity (fps)
H380	39.0	3173	43.0	3498
H414	42.0	3304	46.0	3523
H4350	43.0	3276	47.0	3581
H450	47.0	3216	51.0	3490
IMR4895	36.0	3144	40.0	3493
IMR4064	36.0	3182	40.0	3535
IMR4320	37.5	3173	41.5	3512
IMR4350	41.0	3216	45.0	3530
IMR4831	43.0	3254	47.0	3557
WIN760	41.0	3271	45.0	3590
AA2700	40.0	3184	44.0	3502
N204	43.0	3245	47.0	3547
VIT N 160	42.0	3207	46.0	3512
RL15	36.0	3131	40.0	3479
RL19	45.0	3251	49.0	3540

85-grain XBT
S.D. .206 B.C. .401

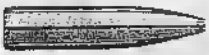
Suggested Bullet Use

85-grain Solid
S.D. .206 B.C. .353

Suggested Bullet Use

Powder	Charge Weight (grains)	Velocity (fps)	Maximum Load	Velocity (fps)
H380	38.0	2996	42.0	3311
H414	41.0	3069	45.0	3368
H4350	39.0	3018	43.0	3327
H450	43.5	3040	47.5	3320
IMR4895	32.5	2860	36.5	3212
IMR4320	32.0	2782	36.0	3130
IMR4350	38.0	2949	42.0	3259
IMR4831	40.0	2953	44.0	3248
WIN760	38.5	3005	42.5	3317
AA2700	37.0	2900	41.0	3214
AA3100	40.0	2934	44.0	3227
N204	39.0	3011	43.0	3320
VIT N 160	37.0	2928	41.0	3245
RL15	34.0	2831	38.0	3164
RL19	41.0	3045	45.0	3342

.243 Winchester



90-grain XFB
S.D. .218 B.C. .382

Suggested Bullet Use

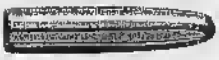
Powder	Charge Weight (grains)	Velocity (fps)	Maximum Load	Velocity (fps)
H414	37.5	2893	41.5	3202
H4350	37.5	2767	41.5	3062
H450	43.5	2963	47.5	3235
H4831	43.5	2959	47.5	3231
IMR4350	37.0	2909	41.0	3224
IMR4831	39.0	2850	43.0	3142
IMR7828	42.0	2952	46.0	3233
WIN760	38.0	2883	42.0	3187
AA2700	36.0	2782	40.0	3091
AA3100	39.0	2820	43.0	3109
N204	38.0	2905	42.0	3211
RL19	40.5	2951	44.5	3242
RL22	43.0	3007	47.0	3287

95-grain XFB
S.D. .230 B.C. .398

Suggested Bullet Use

Powder	Charge Weight (grains)	Velocity (fps)	Maximum Load	Velocity (fps)
H414	36.0	2749	40.0	3054
H4350	36.5	2711	40.5	3008
H450	39.5	2731	43.5	3008
H4831	41.0	2819	45.0	3094
IMR4350	35.5	2764	39.5	3075
IMR4831	37.0	2717	41.0	3011
IMR7828	41.0	2806	45.0	3080
WIN760	36.0	2755	40.0	3061
AA2700	34.0	2660	38.0	2973
AA3100	37.5	2724	41.5	3015
N204	36.0	2743	40.0	3048
RL19	39.5	2859	43.5	3149
RL22	41.0	2857	45.0	3136

.243 Winchester



115-grain Original

S.D. .290 B.C. .322

Suggested Bullet Use

Powder	Charge Weight (grains)	Velocity (fps)	Maximum Load	Velocity (fps)
H4831	39.0	2634	43.0	2904
H1000	41.0	2618	45.0	2873
IMR4831	36.0	2566	40.0	2851
IMR7828	39.0	2596	43.0	2862
AA3100	37.0	2531	41.0	2805
N204	35.0	2603	39.0	2901
RL19	38.5	2603	42.5	2873
RL22	39.0	2700	43.0	2977

SHOOTER'S LOG

POWDER BURNING RATE CHART

Current Canister Grade Powders in order of approximate burning rate. (R1 being the fastest, 748 the slowest)
This list is approximate only and not to be used for developing loads.

1.	**R-1**, Norma	36.	**No. 9**, Accurate Arms
2.	**N31**, Vihtavuori	37.	**R123**, Norma
3.	**TITEWAD**, Accurate Arms	38.	**N110**, Vihtavuori
4.	**RED DOT**, Alliant	39.	**H110**, Hodgdon
5.	**CLAYS**, Hodgdon	40.	**296**, Winchester
6.	**"HI-SKOR" 700-X**, IMR Co.	41.	**IMR4227**, IMR Co.
7.	**BULLSEYE**, Alliant	42.	**H4227**, Hodgdon
8.	**TITEGROUP**, Hodgdon	43.	**SR4759**, IMR Co.
9.	**American Select**, Alliant	44.	**1680**, Accurate Arms
10.	**SOLO 1000**, Accurate Arms	45.	**200**, Norma
11.	**GREEN DOT**, Alliant	46.	**Reloader 7**, Alliant
12.	**INTERNATIONAL**, Hodgdon	47.	**IMR4198**, IMR Co.
13.	**PB**, IMR Co.	48.	**H4198**, Hodgdon
14.	**N320**, Vihtavuori	49.	**N120**, Vihtavuori
15.	**WST**, Winchester	50.	**H322**, Hodgdon
16.	**No.2**, Accurate Arms	51.	**2015 BR**, Accurate Arms
17.	**SR 7625**, IMR Co.	52.	**N130**, Vihtavuori
18.	**HP-38**, Hodgdon	53.	**IMR3031**, IMR Co.
19.	**231**, Winchester	54.	**N133**, Vihtavuori
20.	**UNIQUE**, Alliant	55.	**H335**, Hodgdon
21.	**UNIVERSAL**, Hodgdon	56.	**N135**, Vihtavuori
22.	**Power Pistol**, Alliant	57.	**2230**, Accurate Arms
23.	**N330**, Vihtavuori	58.	**2460**, Accurate Arms
24.	**HERCO**, Alliant	59.	**H4895**, Hodgdon
25.	**WSF**, Winchester	60.	**IMR4895**, IMR Co.
26.	**N340**, Vihtavuori	61.	**RELODER-12**, Alliant
27.	**"HI-SKOR" 800-X**, IMR Co.	62.	**IMR-4320**, IMR Co.
28.	**SR4756**, IMR Co.	63.	**3100**, Accurate Arms
29.	**NO. 5**, Accurate Arms.	64.	**IMR 4064**, IMR Co.
30.	**HS-6**, Hodgdon	65.	**202**, Norma
31.	**3N37**, Vihtavuori.	66.	**2520**, Accurate Arms
32.	**N350**, Vihtavuori	67.	**RELODER-15**, Alliant
33.	**BLUE DOT**, Alliant	68.	**N140**, Vihtavuori
34.	**No. 7**, Accurate Arms	69.	**VARGET**, Hodgdon
35.	**2400**, Alliant	70.	**748**, Winchester

This is a unique reloading/information manual. It contains currently available data regarding loading information for this individual cartridge. This data is compiled from the leading U.S. Bullet and gunpowder manufacturers.

This manual is not intended to replace the many comprehensive, in-depth reloading manuals available from a host of publishers, but instead provide you with a quick and easy-to-use reference source which will enable you to compare loads, types of powders, bullets and shot charges for components you may have on hand.

Loadbooks USA, Inc., also offers the following cartridges in this series of unique One Book/One Caliber reloading manuals: .22 Hornet, .220 Swift, .222 Remington, .223 Remington, .22-250 Remington, .225 Winchester, .243 Winchester, .244/6mm Remington, 6.5x55 Swedish, .25-06 Remington, .250-3000 Savage, .270 Winchester, 7x57 Mauser, 7mm-08 Remington, .280 Remington, .284 Winchester, 7mm Remington Magnum, 7.62x39mm, 7.62x54mm Russian, .30-30 Winchester, .303 British, .308 Winchester, .30-06 Springfield, .300 Winchester Magnum, .300 Weatherby Magnum, .300 Savage, 30/40 Krag, .300 & .375 H & H Magnum, .338 Winchester Magnum, 8mm Remington Magnum, 8mm/06 & .338/06, 8mm Mauser, .356 & .358 Winchester, .35 Whelen, .35 Remington & .350 Remington Magnum, .375 & .458 Winchester, .444 Marlin, .45-70 Government, .25 & .32 A.C.P., .32 H&R Magnum, .380 ACP, 9mm Luger, .38 Super, .38 Special, .357 Magnum, 10mm/.41 Auto, .41 Magnum, .44 Magnum, .44 Special, .45 ACP, .45 Colt, .454 Casull, and The Weatherby Magnums covering 10 different Weatherby calibers.

There's also two shotshell books for the 12 Gauge, and the 20/28 Gauge and .410 bore. Plus there's a large reloading manual covering 30 calibers for the Thompson/Center Contender single-shot pistol and the Remington XP-100 pistol.

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